

(19)



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(11)

EP 0 831 669 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
01.12.1999 Bulletin 1999/48

(51) Int Cl.<sup>6</sup>: H04Q 7/38, H04L 12/64

(43) Date of publication A2:  
25.03.1998 Bulletin 1998/13

(21) Application number: 97307132.7

(22) Date of filing: 15.09.1997

(84) Designated Contracting States:  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC  
NL PT SE

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(30) Priority: 20.09.1996 US 716997

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(54) Load control method and apparatus for CDMA cellular system having circuit and packet switched terminals

(57) A method for operating a cellular communications system of a type that includes a first type of terminal having real-time transmission needs and a second type of terminal having nonreal-time transmission needs. The method includes the steps of (a) determining

at periodic intervals a total amount of capacity required to service the first type of terminals; (b) subtracting the determined amount from a current maximum capacity; and (c) allocating all or some of the remaining capacity, if any, to one or more of the second type of terminals.

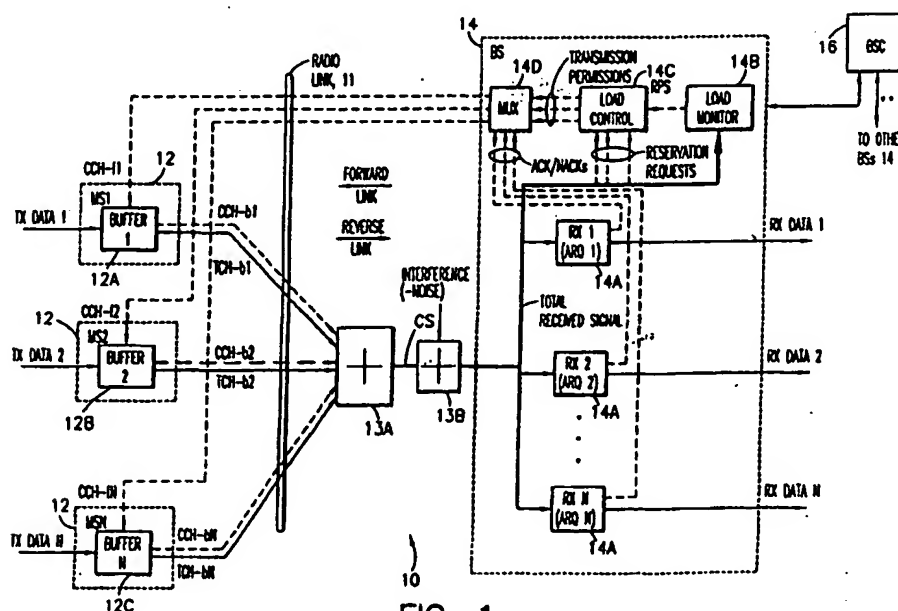


FIG. 1



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# EUROPEAN SEARCH REPORT

Application Number  
EP 97 30 7132

| DOCUMENTS CONSIDERED TO BE RELEVANT  |   |   |  |
|--|---|---|--|
| Category   | Citation of document with indication, where appropriate, of relevant passages   | Relevant to claim   | CLASSIFICATION OF THE APPLICATION (Int.Cl.6)                     |
| X  | <p>WEN-BIN YANG ET AL: "ADMISSION POLICIES FOR INTEGRATED VOICE AND DATA TRAFFIC IN CDMA PACKET RADIO NETWORKS"</p> <p>IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS,</p> <p>vol. 12, no. 4, 1 May 1994 (1994-05-01), pages 654-664, XP000588842</p> <p>ISSN: 0733-8716</p> <p>* column 4, line 40 - column 7, line 23 *</p> <p>* column 11, line 6 - line 19 *</p> <p>* column 15, line 6 - line 32 *</p> <p>* figure 2 *</p>   | 1,2,4,5, 8,17,20, 31,32   | H04Q7/38<br>H04L12/64  |
| X  | <p>NAGHSHINEH M ET AL: "QOS PROVISIONING IN MICRO-CELLULAR NETWORKS SUPPORTING MULTIPLE CLASSES OF TRAFFIC"</p> <p>WIRELESS NETWORKS,</p> <p>vol. 2, no. 3, 1 August 1996 (1996-08-01), pages 195-203, XP000625338</p> <p>ISSN: 1022-0038</p> <p>* column 2, line 14 - column 3, line 27 *</p> <p>* column 5, line 34 - column 6, line 29 *</p> <p>* column 9, line 36, paragraph 42 *</p> <p>* column 16, line 10 - column 17, line 2 *</p>  | 1-3,5, 11,17, 18,20,25  | <p>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</p> <p>H04L<br/>H04Q</p> |
| A  | <p>OLIVEIRA C ET AL: "QUALITY-OF-SERVICE GUARANTEE IN HIGH-SPEED MULTIMEDIA WIRELESS NETWORKS"</p> <p>1996 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS (ICC), CONVERGING TECHNOLOGIES FOR TOMORROW'S APPLICATIONS DALLAS, JUNE 23 - 27, 1996,</p> <p>vol. 2, 23 June 1996 (1996-06-23), pages 728-734, XP000625871</p> <p>INSTITUTE OF ELECTRICAL &amp; ELECTRONICS ENGINEERS ISBN: 0-7803-3251-2</p> <p>* column 1, line 35 - column 3, line 53 *</p> <p>* column 6, line 42 - line 57 *</p> | 1-3,5,6, 8,16-18, 20,21,29  |  |
| -/--   |   |   |  |
| The present search report has been drawn up for all claims   |   |   |  |
| Place of search  |   | Date of completion of the search  | Examiner   |
| THE HAGUE  |   | 12 October 1999   | Pecci, R   |
| CATEGORY OF CITED DOCUMENTS  |   | <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p> |  |
| <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> |   |   |  |



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Application Number  
EP 97 30 7132

| DOCUMENTS CONSIDERED TO BE RELEVANT  |   |  |  |
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| A  | WO 95 35637 A (NOKIA MOBILE PHONES LTD<br>;NOKIA TELECOMMUNICATIONS OY (FI); GLISIC)<br>28 December 1995 (1995-12-28)<br>* page 12, line 25 - page 15, line 3 *<br>* claims 1,7-10 *<br>----- |  |  |
|  |   |  | TECHNICAL FIELDS<br>SEARCHED (Int.Cl.6)      |
| The present search report has been drawn up for all claims   |   |  |  |
| Place of search<br><b>THE HAGUE</b>  |   | Date of completion of the search<br><b>12 October 1999</b> | Examiner<br><b>Pecci, R</b>                  |
| <p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>.....<br/>a : member of the same patent family, corresponding document</p> |   |  |  |

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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12-10-1999

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